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11

Offenlegungsschrift 26 50 226

21

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43

Offenlegungstag:

11. 5. 78

30

Unionspriorität:

32 33 31

54

Bezeichnung:

1,3,4-Triaminoisochinolin, dessen Herstellung sowie dieses enthaltende
Haarfärbemittel

71

Anmelder:

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72

Erfinder:

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DE 2 50 226 A 1

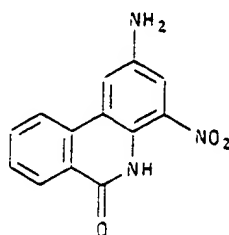
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Patentansprüche

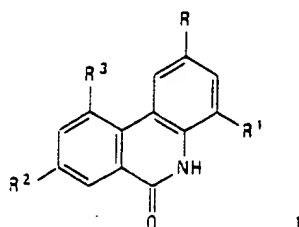
- (1) 1,3,4-Triaminoisochinolin.
2. Verfahren zur Herstellung von 1,3,4-Triaminoisochinolin, dadurch gekennzeichnet, daß man 1,3-Diamino-4-nitrosoisochinolin in Gegenwart von Palladium als Katalysator bei Raumtemperatur hydriert.
3. Haarfärbemittel auf Basis von Oxidationsfarbstoffen, gekennzeichnet durch einen Gehalt an 1,3,4-Triaminoisochinolin sowie dessen anorganischen oder organischen Salzen als Entwickler- und/oder Kupplersubstanz und gegebenenfalls den in Oxidationshaarfärben üblichen Kuppler- beziehungsweise Entwicklersubstanzen.
4. Haarfärbemittel nach Anspruch 3, gekennzeichnet durch einen Gehalt an einem Gemisch der Entwickler- und/oder Kupplersubstanzen.
5. Haarfärbemittel nach Anspruch 3 und 4, gekennzeichnet durch einen zusätzlichen Gehalt üblicher direktziehender Farbstoffe.
6. Haarfärbemittel nach Anspruch 3 - 5, gekennzeichnet durch einen Gehalt an Entwickler-Kuppler-Kombinationen in einer Menge von 0,5 bis 5 Gewichtsprozent, vorzugsweise 1 bis 3 Gewichtsprozent, bezogen auf das gesamte Haarfärbemittel.

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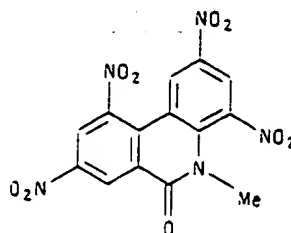
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AB Nitration of phenanthridinone I ($R-R^3 = H$) (II) by HNO_3 (d. 1.4-1.42) or by HNO_3 (d. 1.51)- $AcOH$ gave mononitro derivs. I ($R = NO_2$, $R^1-R^3 = H$; $R = R^2 = R^3 = H$, $R^1 = NO_2$). Nitration of a mixt. of the above by HNO_3 (d. 1.51) and $AcOH$ or Ac_2O gave only the dinitro deriv. I ($R = R^1 = NO_2$, $R^2 = R^3 = H$). Nitration of II by HNO_3 (d. 1.44-1.46) gave dinitro derivs. I ($R = R^2 = NO_2$, $R^1 = R^3 = H$; $R = R^1 = NO_2$, $R^2 = R^3 = H$; $R = R^3 = H$, $R^1 = R^2 = NO_2$). Similarly, II with HNO_3 (d. 1.51) gave trinitro deriv. I ($R = R^1 = R^2 = NO_2$, $R^3 = H$); this nitrated with $HNO_3-H_2SO_4$ gave tetranitro deriv. I ($R-R^3 = NO_2$). Addnl. nitrated was the *N*-Me deriv. of I ($R-R^3 = H$).

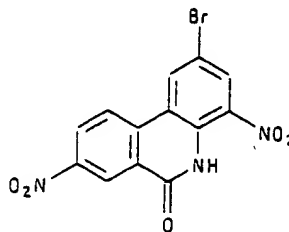
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RN 102926-29-4 ZCAPLUS



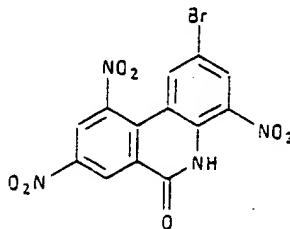
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CN 6(5H)-Phenanthridinone, 2-bromo-4,8-dinitro- (9CI) (CA INDEX NAME)



RN 102926-32-9 ZCAPLUS

CN 6(5H)-Phenanthridinone, 2-bromo-4,8,10-trinitro- (9CI) (CA INDEX NAME)



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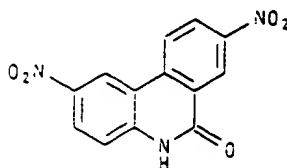
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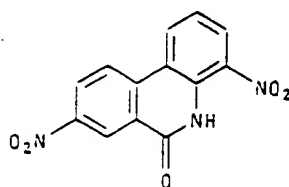
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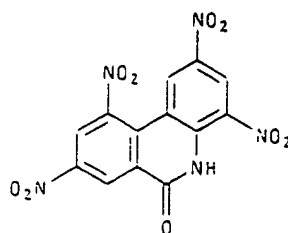
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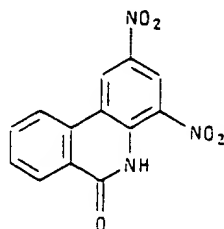
RN 84219-72-7 ZCAPLUS

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RN 97136-58-8 ZCAPLUS

CN 6(5H)-Phenanthridinone, 2,4-dinitro- (9CI) (CA INDEX NAME)

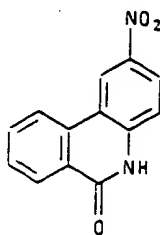


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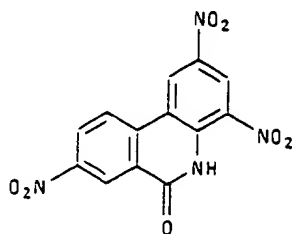
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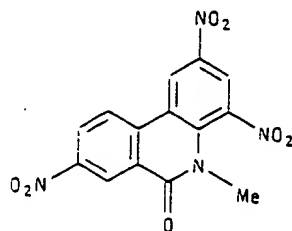
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CN 6(5H)-Phenanthridinone, 2,4,8-trinitro- (9CI) (CA INDEX NAME)



RN 102926-28-3 ZCAPLUS

CN 6(5H)-Phenanthridinone, 5-methyl-2,4,8-trinitro- (9CI) (CA INDEX NAME)



IT 78256-31-2P 78256-32-3P 84219-72-7P 97136-58-8P 102926-29-4P 102926-31-8P 102926-32-9P

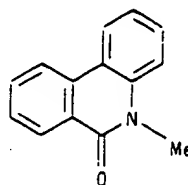
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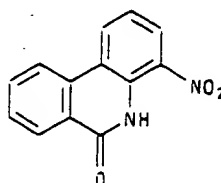
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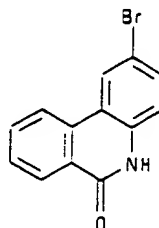
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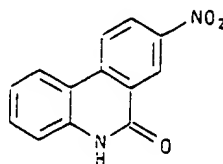
RN 27353-48-6 ZCAPLUS

CN 6(5H)-Phenanthridinone, 2-bromo- (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



RN 78255-99-9 ZCAPLUS

CN 6(5H)-Phenanthridinone, 8-nitro- (6CI, 9CI) (CA INDEX NAME)



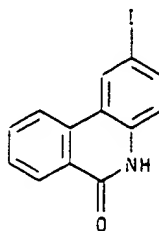
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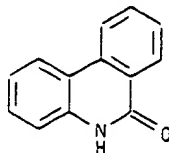
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AN 1986:460505 ZCAPLUS
 DN 105:60505
 TI Synthesis and structure of nitro-substituted 6(5H)-phenanthridinones
 AU Andrievskii, A. M.; Poplavskii, A. N.; Dyumaev, K. M.; Bogachev, Yu. S.; Berestova, S. S.
 CS Nauchno-Issled. Inst. Org. Poluprod. Krasitelei, Moscow, 103787, USSR
 SO Khim. Geterotsikl. Soedin. (1985), (8), 1106-13
 CODEN: KGSSAQ; ISSN: 0453-8234
 DT Journal
 LA Russian
 OS CASREACT 105:60505
 IT 96462-23-6
 (nitration of)
 RN 96462-23-6 ZCAPLUS
 CN 6(5H)-Phenanthridinone, 2-iodo- (6CI, 9CI) (CA INDEX NAME)



IT 1015-89-0
 (nitration of, parameters of)
 RN 1015-89-0 ZCAPLUS
 CN 6(5H)-Phenanthridinone (6CI, 7CI, 8CI, 9CI) (CA INDEX NAME)



IT 4594-73-4P 23818-43-1P 27353-48-6P 78255-99-9P 78256-30-1P 78256-33-4P 102926-28-3
 P
 (prepn. and nitration of)
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 CN 6(5H)-Phenanthridinone, 5-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)